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English</p> <p>(30) Priority Data:</p> <table border="0"> <tr><td>60/435,163</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,416</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,445</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,415</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,488</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,449</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,447</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,506</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,507</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,496</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,075</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,423</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,336</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,630</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,372</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,106</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,388</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,632</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,557</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,558</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,132</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,497</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,494</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,508</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,501</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,565</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,038</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,037</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,162</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,338</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> <tr><td>60/435,509</td><td>20 December 2002 (20.12.2002)</td><td>US</td></tr> </table> | 60/435,163 | 20 December 2002 (20.12.2002) | US | 60/435,416 | 20 December 2002 (20.12.2002) | US | 60/435,445 | 20 December 2002 (20.12.2002) | US | 60/435,415 | 20 December 2002 (20.12.2002) | US | 60/435,488 | 20 December 2002 (20.12.2002) | US | 60/435,449 | 20 December 2002 (20.12.2002) | US | 60/435,447 | 20 December 2002 (20.12.2002) | US | 60/435,506 | 20 December 2002 (20.12.2002) | US | 60/435,507 | 20 December 2002 (20.12.2002) | US | 60/435,496 | 20 December 2002 (20.12.2002) | US | 60/435,075 | 20 December 2002 (20.12.2002) | US | 60/435,423 | 20 December 2002 (20.12.2002) | US | 60/435,336 | 20 December 2002 (20.12.2002) | US | 60/435,630 | 20 December 2002 (20.12.2002) | US | 60/435,372 | 20 December 2002 (20.12.2002) | US | 60/435,106 | 20 December 2002 (20.12.2002) | US | 60/435,388 | 20 December 2002 (20.12.2002) | US | 60/435,632 | 20 December 2002 (20.12.2002) | US | 60/435,557 | 20 December 2002 (20.12.2002) | US | 60/435,558 | 20 December 2002 (20.12.2002) | US | 60/435,132 | 20 December 2002 (20.12.2002) | US | 60/435,497 | 20 December 2002 (20.12.2002) | US | 60/435,494 | 20 December 2002 (20.12.2002) | US | 60/435,508 | 20 December 2002 (20.12.2002) | US | 60/435,501 | 20 December 2002 (20.12.2002) | US | 60/435,565 | 20 December 2002 (20.12.2002) | US | 60/435,038 | 20 December 2002 (20.12.2002) | US | 60/435,037 | 20 December 2002 (20.12.2002) | US | 60/435,162 | 20 December 2002 (20.12.2002) | US | 60/435,338 | 20 December 2002 (20.12.2002) | US | 60/435,509 | 20 December 2002 (20.12.2002) | US | <p>60/435,495 20 December 2002 (20.12.2002) US</p> <p>60/435,505 20 December 2002 (20.12.2002) US</p> <p>60/450,722 28 February 2003 (28.02.2003) US</p> <p>60/454,997 14 March 2003 (14.03.2003) US</p> <p>(71) Applicant (for all designated States except US): ST. JAMES ASSOCIATES LLC/FABER RESEARCH SERIES [US/US]; 135 East Holly Street, Apartment 408, Pasadena, CA 91103 (US).</p> <p>(72) Inventor; and</p> <p>(75) Inventor/Applicant (for US only): SMITH, Thomas, J. [CA/US]; 135 East Holly Street, Apt. 408, Pasadena, CA 91103 (US).</p> <p>(74) Agents: TWOMEY, Michael, J. et al.; Hale and Dorr LLP, 60 State Street, Boston, MA 02109 (US).</p> <p>(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.</p> <p>(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published:</p> <ul style="list-style-type: none"> — with international search report — before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments <p>For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.</p> |
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(54) Title: COATED PARTICLES FOR SUSTAINED-RELEASE PHARMACEUTICAL ADMINISTRATION

(57) Abstract: Coated microparticles for sustained-release of an active pharmaceutical ingredient after parenteral administration, and methods of producing such coated microparticles, are provided. The coated microparticles comprise core particles of an active pharmaceutical ingredient and a first polymeric coating on the core particles. The first polymeric coating is permeable to the active pharmaceutical ingredient forms a saturated solution within the coated microparticle, resulting in pseudo-zero-sustained release period. A second polymeric coating can be employed to add mechanical support or as a rate-controlling element.

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